



National Weather Service

Storm Data and Unusual Weather Phenomena



November 1998

| Location | Date | Time Local/ Standard | Path Length (Miles) | Path Width (Yards) | Number of Persons Killed | Number of Persons Injured | Estimated Damage Property | Estimated Damage Crops | Character of Storm |
|----------|------|----------------------------|---------------------------|--------------------------|--------------------------------|---------------------------------|---------------------------------|------------------------------|--------------------|
|----------|------|----------------------------|---------------------------|--------------------------|--------------------------------|---------------------------------|---------------------------------|------------------------------|--------------------|

KANSAS, Southeast

KSZ049-051>053- Saline - Mcpherson - Marion - Chase - Harvey - Butler - Greenwood - Allen - Sedgwick - Harper - Sumner - Cowley -
068>070-072-083-091>093- Wilson - Neosho
095>096

| | | | | | |
|----|---------|---|---|-------|-------|
| 01 | 0001CST | 1 | 2 | 31.9M | Flood |
| 05 | 2359CST | | | | |

Widespread heavy rains of 6-10 inches inundated South-Central and Southeast Kansas from the evening of October 30th thru November 1st while 4-8 inches drenched Central Kansas. As a result, record flooding occurred along the following river:

Whitewater River: At Towanda: crest: 30.53 feet on 11/01/98. (Old record: 29.73 feet on 06/08/79).
At Augusta: crest: 34.95 feet on 11/01/98. (Old record: 32.70 feet on 06/08/79).

Arkansas River: At Derby: crest: 16.60 feet on 11/01/98. (Old record: 16.19 feet on 07/15/93).
At Arkansas City, 28.89 feet on 11/03/98. (Old record: 27.62 feet on 05/11/93).

Walnut River: At Arkansas City: crest: 32.45 feet on 11/03/98. (Old record: 29.22 feet on 06/11/95).

Cottonwood River: At Florence: crest: 28.67 feet on 11/01/98. (Old record: 28.03 feet on 06/17/95).
At Plymouth: crest: 36.77 feet on 11/01/98. (Old record: 35.70 feet on 06/05/65).

The record flooding resulted in 1 confirmed death, 2 injuries, just over 5,300 evacuations, and \$32 million in damage to crops, highways, property (both business and private), and soil erosion. Of the evacuations, 3,000 occurred in and around Arkansas City in southwest Cowley County and 1,800 occurred in and around Augusta in southwest Butler County. In West Wichita, 100 people were evacuated when Cowskin Creek flooded.

The most significant damage occurred in and around Augusta where 565 homes, 230 mobile homes (many were a total loss), and 100 businesses sustained damage. All told, \$10 million in damage were assessed in Butler County.

Cowley County was the 2nd hardest hit area with \$8 million damage assessed including 479 structures, both residential and business. The majority of the damage occurred in and around Arkansas City.

In Sedgwick County, the Cowskin Creek flooded causing \$4 million damage to homes, businesses, roads and crops.

In Sumner County, 2 people were treated for hypothermia at a local hospital. Though record crests were not achieved on the Chikaskia and Ninnescah Rivers, significant flooding occurred none-the-less as 70 people were evacuated in Argonia along the Chikaskia and in Belle Plaine along the Ninnescah. There were also evacuations in Mulvane along the Arkansas River.

In Chase County, approximately 200 people were evacuated in Cedar Point, Saffordville, Strong City and Elmdale. In Elmdale only 1 residence escaped flooding. The \$2 million damage was inflicted upon crops, roads, residences and soil erosion.

In Greenwood County, most of the \$500,000 damage was due to roads being washed out.

In Neosho County, \$500,000 damage occurred mainly due to partial failure of a levy in Chanute.

In Wilson County, 50 people were evacuated in and around Coyville when Toronto Lake began releasing. However, no significant damage resulted.

F50VE



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| <u>KANSAS, Southeast</u> | | | | | | | | |
| Kingman County | | | | | | | | |
| Penalosa | 09 | 1805CST | | | 0 | 0 | | Hail(0.75) |
| Ellsworth County | | | | | | | | |
| 10 SE Lorraine | 09 | 1813CST | | | 0 | 0 | | Thunderstorm Wind (G50) |
| Reno County | | | | | | | | |
| South Hutchinson | 09 | 1840CST | | | 0 | 0 | | Hail(0.75) |
| Sedgwick County | | | | | | | | |
| 3 NW Clearwater | 09 | 1925CST 1927CST | 1 | 50 | 0 | 0 | 50K | Tornado (F0) |
| The tornado touched down briefly prior to hitting one home and lifted after about a mile | | | | | | | | |
| Sumner County | | | | | | | | |
| 4 E Belle Plaine | 09 | 1932CST | | | 0 | 0 | | Hail(0.75) |
| Sedgwick County | | | | | | | | |
| 5 S Wichita | 09 | 1935CST | | | 0 | 1 | 50K | Thunderstorm Wind (G61) |
| One mobile home was rolled over. The occupant suffered a broken collar bone when the water bed he was sleeping in rolled on top of him. | | | | | | | | |
| Butler County | | | | | | | | |
| Andover | 09 | 1939CST | | | 0 | 0 | | Thunderstorm Wind (G60) |
| Butler County | | | | | | | | |
| Augusta | 09 | 1950CST | | | 0 | 0 | | Hail(0.75) |
| Cowley County | | | | | | | | |
| 2 S Rock | 09 | 1950CST | | | 0 | 0 | | Hail(0.75) |
| Harper County | | | | | | | | |
| 2 NW Danville | 09 | 2000CST | | | 0 | 0 | 25K | Thunderstorm Wind (G61) |
| Roof damage was reported on 4 homes. | | | | | | | | |
| Greenwood County | | | | | | | | |
| 10 SW Eureka | 09 | 2032CST | | | 0 | 0 | | Thunderstorm Wind (G52) |
| Elk County | | | | | | | | |
| Grenola | 09 | 2045CST | | | 0 | 0 | | Hail(0.75) |
| Greenwood County | | | | | | | | |
| Neal | 09 | 2100CST | | | 0 | 0 | | Hail(0.75) |
| Woodson County | | | | | | | | |
| 2 S Yates Center | 09 | 2125CST | | | 0 | 0 | | Thunderstorm Wind (G52) |
| Neosho County | | | | | | | | |
| Chanute | 09 | 2222CST | | | 0 | 0 | | Thunderstorm Wind (G52) |